

Product datasheet

Anti-RAD18 antibody ab186835

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Overview

Product name	Anti-RAD18 antibody
Description	Rabbit polyclonal to RAD18
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant full length protein corresponding to Human RAD18 aa 1-495. Database link: Q9NS91
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 49% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab186835 in the following tested applications.

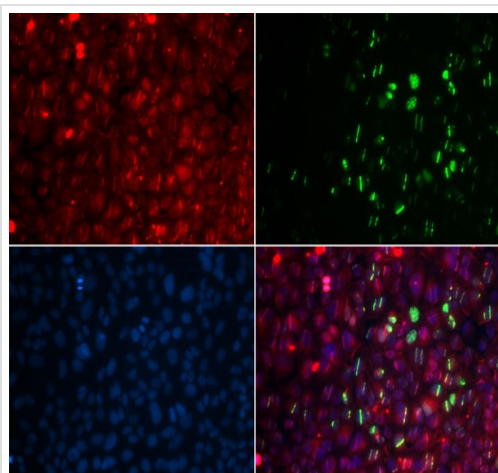
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		1/500 - 1/2000. Predicted molecular weight: 56 kDa.

Target

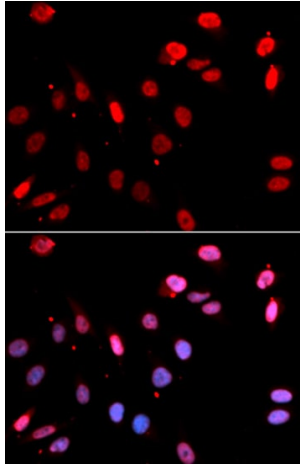
Function	E3 ubiquitin-protein ligase involved in postreplication repair of UV-damaged DNA. Postreplication repair functions in gap-filling of a daughter strand on replication of damaged DNA. Associates to the E2 ubiquitin conjugating enzyme UBE2B to form the UBE2B-RAD18 ubiquitin ligase complex involved in mono-ubiquitination of DNA-associated PCNA on 'Lys-164'. Has ssDNA binding activity.
Pathway	Protein modification; protein ubiquitination.
Sequence similarities	Belongs to the RAD18 family. Contains 1 RING-type zinc finger. Contains 1 SAP domain. Contains 1 UBZ-type zinc finger.
Cellular localization	Nucleus.

Images



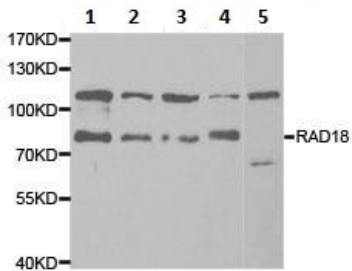
Immunofluorescence analysis of GFP-RNF168 transgenic U2OS cell using ab186835. Green: GFP-RNF168 fusion protein expression for DNA damage marker. Blue: DAPI for nuclear staining. RNF168(GFP) can be used to mark cells damaged by UV-A laser for they always gather around DNA damage region.

Immunocytochemistry/ Immunofluorescence - Anti-RAD18 antibody (ab186835)



Immunocytochemistry/Immunofluorescence analysis of U2OS cells using ab186835. Blue DAPI for nuclear staining.

Immunocytochemistry/ Immunofluorescence - Anti-RAD18 antibody (ab186835)



All lanes : Anti-RAD18 antibody (ab186835) at 1/500 dilution

Lane 1 : Extracts from K562 cell line

Lane 2 : Extracts from MCF7 cell line

Lane 3 : Extracts from Jurkat cell line

Lane 4 : Extracts from 293T cell line

Lane 5 : Extracts from mouse liver

Western blot - Anti-RAD18 antibody (ab186835)

Predicted band size: 56 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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